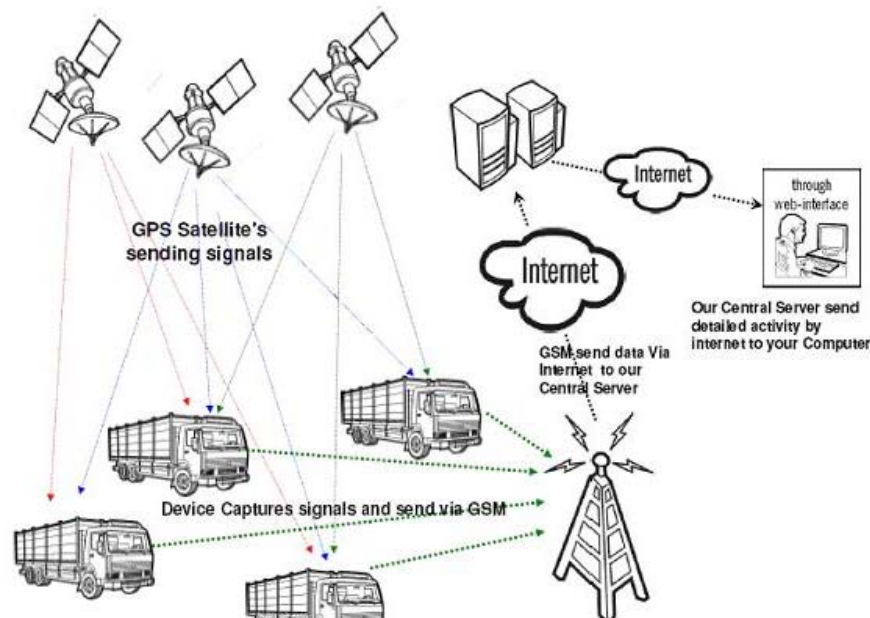# VEHICLE TRACKING SYSTEM (VTS)

Description

REIL provides an innovative web-enabled "On-line Vehicle Tracking System" to manage vehicle fleet comprising of trucks, dumper, car, trailers, tankers, containers or any four-wheel vehicles.

The Vehicle Tracking System offered by REIL, comprises of the Vehicle mount unit, which determines its positional data by communicating with the Geographical Positioning System (GPS) satellites, and communicating the data with real time stamp – using the General Packet Radio Service (GPRS) / Global System of Mobile (GSM) Communication network to the web servers. The web servers comprise of the Communication server, Database / GIS map server and Backup Web server. The authorized user can access this web server through Internet for which a computer system and broadband connection would be the only requirement at the user site.

The vehicle mount unit is a microprocessor-controlled device, which employs the extended features of the Global Positioning System (GPS) to determine the position of the vehicle in terms of Longitude and Latitude with the date and time stamp, GPRS and GSM technologies to periodically send the captured positional data to the web servers.

Wherever the GPRS / GSM network coverage is not there; the data logger of the vehicle mount unit is made capable of storing upto 200 positional transactions. Most of the cities of India are well covered in the GPRS communication by various service providers. However the vehicle mount unit can send the positional data through GSM communication also. This feature is useful while deploying vehicles in the areas where GPRS coverage is not there. However, the usages and roaming charges would be applicable as per the effective plan of the GSM service provider.

In order to cover worst-case eventualities when neither of GPRS and GSM network is available, then the unit can store upto 200 transactions, which is sent to the web server on availability of the communication network.

The positional data is forwarded to the web servers, which comprises of Communication, database server and map servers. The data is authenticated, validated, stored, interpreted and superimposed on digital maps of the location. The remotely placed Backup server backs up the data. The user can see various graphical and textual details pertaining to movement of the vehicle, over the Computer system using broadband Internet connectivity.

Keeping in view that the PSTN or ISDN internet connectivity provides lesser bandwidth, which is insufficient to handle the graphical images; it is recommended to use the broadband internet connection only.

The digital maps of the area concerned, shall be arranged from the agencies concerned.

Features

- Intrinsically safe design
- Built-in GSM Antenna
- SMS backup for GPRS
- Auto messaging mode
- Vehicle information on 24 X 7 basis
- "Black box" design – No manual intervention is required
- Remotely configurable
- Fire retardant cable
- Configurable buttons for emergency / panic buttons
- Position accuracy: of +/- 10 meters
- IP67 compliant (Ingress protection)
- Certified by Chief Controller of Explosives for Vehicles carrying petroleum fuels, and SAMEER for Electro magnetic interface
- Optional : Two way communication system
- Produces variety of reports

Indicative List of reports

- Vehicle status report
- Speed violation report
- Distance traveled report
- Idle time monitoring report
- Route deviation report
- Vehicle in / out report

Note: A pre-implementation study is a pre-requisite for such projects, to identify the system requirements and user requirements. The customization can be done as per the user requirements.
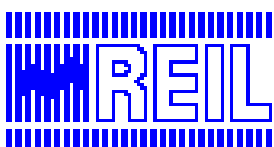
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